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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,777	06/26/2003	Jea-Woan Lee	1567.1047	5869	
49455 7590 05/10/2007 STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005			EXAMINER WEINER, LAURA S		
			ART UNIT	PAPER NUMBER	
	. ,		1745		
			MAIL DATE	DELIVERY MODE	
•			05/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)	- 1			
Office Action Summary		10/603,777	LEE ET AL.				
		Examiner	Art Unit				
		Laura S. Weiner	1745				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence addre	SS			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION (36(a). In no event, however, may a will apply and will expire SIX (6) MON, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this comm BANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 19 M	larch 2007.					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	). 11, 453 O.G. 213.				
Disposit	ion of Claims						
4) 又	4)⊠ Claim(s) <u>1-6,8,14-21,23,24,26-29,33,37-41,47,63 and 65</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)🖂	Claim(s) <u>1-5,14-18,20,21,23,24,26-28,33,37-4</u>	0,47,63 and 65 is/are allo	wed.				
6)⊠	6) Claim(s) <u>6,8,19,29 and 41</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	er.					
=	The drawing(s) filed on is/are: a) _ acc		by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	·	•				
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached	d Office Action or form PTO-	152.			
Priority	under 35 U.S.C. § 119	•					
-	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. §	§ 119(a)-(d) or (f).				
/	1. Certified copies of the priority document	s have been received.	•				
	2. Certified copies of the priority document		Application No				
	3. Copies of the certified copies of the prio	rity documents have been	received in this National Sta	ige			
	application from the International Burea	u (PCT Rule 17.2(a)).					
* (	See the attached detailed Office action for a list	of the certified copies not	received.				
	•						
Attachmer	nt(s)						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		nformal Patent Application				

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#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments with respect to claims 6, 8, 29 have been considered but are most in view of the new ground(s) of rejection.

#### Claim Rejections - 35 USC § 112

2. Claims 6, 8, 19, 29 and 41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6 and claim 29 are rejected because it claims "wherein the substrate ... consists of a conductive material" but claims 1 and claim 20 from which claims 6 and 29 depend from claims that the substrate is selected from a conductive polymer film, a polymer film deposited with a metal and a polymer film incorporated with a conductive agent. Firstly, applicants argued that "a conductive polymer film" would not have a conductive material but because of its makeup it would be conductive. Secondly, claim 1 already cites "a polymer film incorporated with a conductive agent so it is unclear what claim 6 adds to this component of claim 1. Thirdly, if a conductive material is added to the negative electrode than it is unclear what the difference is between a conductive polymer film with a conductive material and a polymer film incorporated with a conductive agent and a conductive material.

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Claim 8 is rejected because the substrate could comprise a conductive polymer film or a polymer film incorporated with a conductive agent so it is unclear how the phrase "wherein the metal is copper or nickel" further limits claim 1.

Claim 19 and 41 are rejected because it is unclear what is meant by "compressing a lithium foil thereon". Also, what /where is the lithium foil on.

## Allowable Subject Matter

3. Claims 1-5, 14-18, 20-21, 23-24, 26-28, 33, 37-40, 47, 63, 65 are allowed.

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ohsawa et al. (5,162,178) teaches a negative electrode for a secondary battery having a current collector with an uneven rough surface made of a metal and a lithium metal thereon.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Laura S Weiner Primary Examiner Art Unit 1745

May 9, 2007